What is claimed is:

1. A method of lowering the melting temperature of a glass composition including CaO and MgO while substantially maintaining the bending and annealing temperatures, comprising the steps of:

increasing the CaO by a selected weight percent; and decreasing the MgO by substantially the same weight percent.

- The method according to claim 1, including increasing the CaO to greater than 9 weight percent.
- 3. The method according to claim 1, including increasing the CaO to 9.1 to 12 weight percent.
- 4. The method according to claim 1, including increasing the CaO to greater than or equal to 10 weight percent.
- $\mbox{5.} \quad \mbox{The method according to claim 1, including} \\ \mbox{decreasing the MgO to less than 3 weight percent.}$
- The method according to claim 1, including maintaining a total amount of CaO + MgO greater than 12 weight percent.
- 7. The method according to claim 1, including maintaining a total amount of CaO + MgO greater than 12.5 weight percent.
- 8. The method according to claim 1, including maintaining a total amount of CaO + MgO in the range of 12.5 to 13 weight percent.

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- 9. The method according to claim 1, including increasing the CaO to provide a melting temperature in the range of about 2500°F to about 2590°F (1370°C to 1421°C), a bending temperature in the range of about 1300°F to 1400°F (704°C to 759°C), and an annealing temperature in the range of about 1010° F to 1050° F (543° C to 565° C).
- 10. A method of adjusting a glass composition to lower the melting and forming temperatures while substantially maintaining the bending and annealing temperatures, comprising the steps of:

providing a glass composition having CaO and MgO; increasing the CaO a selected amount; and decreasing the MgO by substantially the same selected amount while substantially maintaining a total amount of CaO + MgO.

11. A method of lowering the melting and forming temperatures of a glass composition while substantially maintaining the softening and annealing temperatures of the glass, comprising:

replacing at least a portion of at least one of CaO or MgO in the composition with a metal oxide whose metal has a lower field strength than at least on e of Ca^{++} or Mo^{++} .

12. The method according to claim 11, including replacing at least a portion of at least one of the CaO or MgO with at least one metal oxide whose metal is selected from Ba or Sr.

A glass composition, comprising: 13. 70 to 75 weight percent SiO₂ 12 to 15 weight percent Na₂O K₂O 0 to 5 weight percent CaO > 9 weight percent MgO < 4 weight percent Al₂O₃ 0 to 2 weight percent 0 to 1 weight percent SO₃ 0 to 2 weight percent Fe₂O₃

wherein:

 $SiO_2 + Al_2O_3 \ge 70$ weight percent $Na_2O + K_2O$ 10 to 15 weight percent CaO + MgO 12 to 15 weight percent

CaO/MgO 2 to 5

- $14. \quad \text{The composition according to claim 13, wherein} \\ \text{CaO is in the range of greater than 9 to 12 weight percent.}$
- $15. \quad \mbox{The composition according to claim 13, wherein $$ \mbox{CaO}$ is in the range of 9.1 to 11 weight percent. }$
- 16. The composition according to claim 13, wherein MgO is in the range of 2 to less than 4 weight percent.
- \$17.\$ The composition according to claim 13, wherein CaO + MgO is in the range of 12 to 13.5 weight percent.
- 18. The composition according to claim 13, wherein CaO + MgO is in the range of 12.5 to 13 weight percent.
- 19. The composition according to claim 13, wherein the glass composition has a log 2 viscosity in the range of about $2570^{\circ}F$ to about $2590^{\circ}F$ ($1410^{\circ}C$ to $1421^{\circ}C$) and a log 4

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viscosity in the range of about $1850\,^{\circ}\text{F}$ to about $1894\,^{\circ}\text{F}$ (1010 $^{\circ}\text{C}$ to $1034\,^{\circ}\text{C}$).

- 20. The composition according to claim 13, wherein the glass composition has a log 7.6 viscosity in the range of about $1300^{\circ}F$ to about $1350^{\circ}F$ ($704^{\circ}C$ to $732^{\circ}C$) and a log 13 viscosity in the range of about $1016^{\circ}F$ to about $1020^{\circ}F$ ($547^{\circ}C$ to $549^{\circ}C$).
- 21. The composition according to claim 19, wherein the glass composition has a log 7.6 viscosity in the range of about $1300^{\circ}F$ to about $1350^{\circ}F$ ($704^{\circ}C$ to $732^{\circ}C$) and a log 13 viscosity in the range of about $1016^{\circ}F$ to about $1020^{\circ}F$ ($547^{\circ}C$ to $549^{\circ}C$).
- $$22.$\ A$ flat glass product made by the process of claim 1.